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	WART KOLASCH &	MISLEH,	MISLEH, JUSTIN P	
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	•		2612	

DATE MAILED: 11/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Applicat	ion No.	Applicant(s)	Applicant(s)			
		09/768,2	253	SUEMOTO ET AL	- -			
		Examine	r	Art Unit				
		Justin P.		2612				
Period fo	The MAILING DATE of this communications Reply	n appears on th	e cover sheet	with the correspondence ac	idress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING DISTRICT IN THE MAILING DISTRICT OF	NG DATE OF T CFR 1.136(a). In no er on. period will apply and v statute, cause the ap	HIS COMMUN vent, however, may will expire SIX (6) MO plication to become	IICATION. a reply be timely filed DNTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).	,			
Status								
1)⊠	Responsive to communication(s) filed on	13 June 2005						
•	This action is FINAL . 2b)⊠ This action is non-final.							
	atters, prosecution as to the	e merits is						
٠,۵	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	4)⊠ Claim(s) <u>1 - 34</u> is/are pending in the application.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
	Claim(s) <u>1 - 34</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
·—	Claim(s) are subject to restriction a	and/or election	requirement.					
Applicati	on Papers							
	•	aminer						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on <u>25 January 2001</u> is/are: a) accepted or b) objected to by the Examiner.								
,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the	priority docum	ents have bee	n received in this National	Stage			
	application from the International B	•						
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)								
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:								

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 13 2005 has been entered.

Response to Arguments

- 2. Applicant's arguments with respect to Claims 1-34 have been considered but are moot in view of the new grounds of rejection.
- 3. Claim 26 is objected to because of the following informalities: typographical error.

The claim is written as is it depends from Claim 25; however, actually depends from Claim 21. For the purposes of examination, the Examiner will interpret Claim 26 as it depends from Claim 25.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 5. Claims 21 34 are rejected under 35 U.S.C. 102(e) as being anticipated by Katagiri.
- 6. For Claims 21 and 28, Katagiri discloses, as shown in figures 2 4, 6, 7, and 11, a camera (see figures 2 and 3) and corresponding method of operating thereof, comprising:

a plurality of lens groups (102 - see figures 4 and 7);

an image sensor (73 – see figure 6) for sensing an image from light received through the plurality of lens groups (102);

a memory (76 – see figure 6) for storing image data corresponding to the image sensed by the image sensor (73); and

a controller (71 – see figure 6) for controlling movements of the plurality of lens groups (102), for controlling the image sensor (73), and for controlling the storage of the image data into the memory (76),

wherein when the controller (71) receives instructions to record the image during a movement of the plurality of lens groups (zooming operation of 102 – see figure 11) from a first predetermined position (lens position at beginning of zooming operation W – see figure 11) to a second predetermined lens position (lens position at end of zooming operation T – see figure 11), the controller (71) controls the image sensor (73) to sense the image prior to the plurality of lens groups (102) have completed their movements to the second predetermined lens position (lens position at end of zooming operation T – see figure 11) for recording the image data into the memory (all images are passed to the memory 76 before being displayed at the LCD 77 – see

figure 6; also see column 10, line 63 – column 11, line 32 and see column 12, line 52 – column 13, line 61 wherein Katagiri describes that images are captured and displayed during the zooming operation).

- 7. As for Claims 22, 27, 29, and 34, Katagiri discloses, as shown in figure 11 and as stated on column 15 (lines 5 15), wherein the first predetermined position (lens position at beginning of zooming operation W see figure 11) of the plurality of lens groups (102) is one of a tele position and a wide position and the second predetermined position (lens position at end of zooming operation T see figure 11) of the plurality of lens groups (102) is the other of the tele position and the wide position (The Examiner notes that Katagiri teaches capturing image during a zooming operation).
- 8. As for Claims 23 and 30, Katagiri discloses, as shown in figure 11 and as stated in column 12 (line 52) column 13 (line 61), wherein the controller (71) controls the plurality of lens groups (102) such that the image is focused during the movement between the first and second predetermined positions.
- 9. As for Claims 24 and 31, Katagiri discloses, as stated in column 13 (lines 19-37), a display (77 see figure 6), wherein the image is displayed on the display during the movement between the first and second predetermined positions (Katagiri clearly indicates that the image is displayed during zooming).
- 10. As for Claims 25 and 32, Katagiri discloses, as shown in figure 4, wherein the plurality of lens groups (102) include:
 - a zoom lens (front and rear lens groups 5 and 7 see figure 4); and
 - a focus lens (front and rear lens groups 5 and 7 see figure 4),

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wherein the controller (71) controls a movement of the zoom lens to control an image magnification and the controller controls the movement of the focus lens to control image focus (see column 9, lines 47 - 54).

11. As for Claims 26 and 33, Katagiri discloses, as shown in figure 4, wherein the zoom lens (front and rear lens groups 5 and 7 – see figure 4) has a plurality of magnification ranges (see figure 11), the zoom lens (front and rear lens groups 5 and 7 – see figure 4) goes through the plurality of magnification ranges during the movement of the plurality of lens groups between a retracted position (see column 10, line 63 – column 11, line 32) and the first predetermined position (lens position at beginning of zooming operation W – see figure 11), and upon camera power up, the controller (71) controls the movement of the plurality of lens groups between the retracted and the first predetermined positions (again see column 10, line 63 – column 11, line 32).

Claim Rejections - 35 USC § 103

- 12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 13. Claims 1-5, 9-12, and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakaegi et al. in view of Katagiri.

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For Claim 1, Sakaegi et al. disclose, as shown in figures 1-3, 4A, and 5A-5F and as 14. stated in columns 5 (lines 44 - 56), 6 (lines 6 - 19), 7 (lines 19 - 32), 8 (lines 5 - 8 and 53 - 67), 9 (lines 1-65), 10 (lines 54-67), and 11 (lines 1-32), a digital camera, comprising:

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- (a) a housing (1; see figure 1) provided with at least a single lens (lens barrel 2) movable along an optical axis in accordance with an instructed magnification (An instructed magnification is inherent at time of lens manufacture, including zero magnification.);
- (b) an image sensor (image pickup element 6) disposed for receiving light through the at least single lens (lens barrel 2) and producing an electronic information in accordance therewith;
- (c) a memory (recording apparatus 16) connected to the image sensor (image pickup element 6) for receiving and storing data in accordance with the electronic information received from the image sensor (The memory 16 is connected to the image sensor 6 by means of the control circuits shown in figures 2 and 3); and
- (d) a controller (control circuit 17) electronically controlling the memory (16; by mean of disc motor control circuit 18) and movement of the at least single lens (lens barrel 2), the controller (control circuit 17) having program logic (flowchart of figure 4A) defining a plurality of operation modes (single shot mode, low speed continuous mode, and high speed continuous mode; designated by switching control unit 10 connected to control circuit 17; see figure 2; column 6, lines 14 - 19; column 7, lines 19 - 21), the logic upon initiation determining an operation mode, and if the mode is determined to be an image recording mode (all three modes are image recording modes), the logic causing the controller to commence moving the single lens to initialization positions and performs initialization processing for enabling image recording, and after completion of the initialization processing for enabling image processing, upon receipt

of a command for image recording, control the memory to store data in accordance with the electronic information presently available from the image sensor (see explanation below).

The control circuit (17) operates according the flowchart of figure 4A. As stated in column 10 (lines 54 - 58), photographing and recording operations can be executed immediately after the initiation of a photographing and recording trigger (SW2 of two-stroke release switch 8). Furthermore, Sakaegi et al. state that there exists an "initial status" and a "predetermined status". The "initial status" is defined as the mirror (4) set down to the photographing optical axis to guide the light to the optical finder and the photometry apparatus (19) and/or the single lens (2) out-of-focus position at start-up (see column 10, lines 63 – 66) as is represented in figure 4A-1. The "predetermined status" is defined as the mirror (4) set up to a predetermined fixed position (see Step S57 in figure 4A-2), the aperture (3) at a predetermined stop (see Step S57 in figure 4A-2), and/or the single lens (2) in an in-focus position (see column 11, lines 1-3). Clearly, the "initial status" represents the camera at startup and the flow from Step S50 (in figure 4A-1) until X (in figure 4A-2); and the "predetermined status" represents the camera just before a photographing operation (Step S57 – S68 in figure 4A-2). As stated in column 11 (lines 3-9), the transition from "initial status" to "predetermined status" is the initialization processing and the commence moving the single lens to an initialization position, as claimed. Finally, Sakaegi et al. disclose, as indicated in figure 4A-2, control the memory to store data in accordance with the electronic information presently available from the image sensor AFTER the lens group has arrived at its initialization position (see Steps S60 and S61).

Therefore, Sakaegi et al. does not disclose:

(a) a plurality of lens groups; and

(b) controlling the memory to store data in accordance with the electronic information presently available from the image sensor DURING movement of the plurality of lens groups.

With respect to (a) and (b), Katagiri also disclose an analogous electronic camera with a lens group. Additionally, Katagiri teaches a lens groups that is comprised of plurality of lens groups that collectively move between a first position and a second position.

More specifically, Katagiri disclose, as shown figures 2 – 4 and 11, a plurality of lens groups (102 – see figures 4 and 7); a memory (76 – see figure 6) for storing image data corresponding to the image sensed by the image sensor (73); and a controller (71 – see figure 6), wherein when the controller (71) receives instructions to record the image during a movement of the plurality of lens groups (zooming operation of 102 – see figure 11) from a first predetermined position (lens position at beginning of zooming operation W – see figure 11) to a second predetermined lens position (lens position at end of zooming operation T – see figure 11), the controller (71) controls the image sensor (73) to sense the image prior to the plurality of lens groups (102) have completed their movements to the second predetermined lens position (lens position at end of zooming operation T – see figure 11) for recording the image data into the memory (all images are passed to the memory 76 before being displayed at the LCD 77 – see figure 6; also see column 10, line 63 – column 11, line 32 and see column 12, line 52 – column 13, line 61 wherein Katagiri describes that images are captured and displayed during the zooming operation).

Therefore, Katagiri teaches controlling a memory to store data in accordance with the electronic information presently available from the image sensor during movement of the plurality of lens groups, as claimed.

As stated in column 25 (lines 7 - 19) of Katagiri, at the time the invention was made it would have been obvious to one with ordinary skill in the art to have included plurality of lens groups and controlling a memory to store data in accordance with the electronic information presently available from the image sensor during movement of the plurality of lens group in the electronic camera disclosed Sakaegi et al. for the advantage inhibiting "any sense of incongruity for the user".

- 15. For Claim 9, Sakaegi et al. disclose, as shown in figures 1 3, 4A, and 5A 5F and as stated in columns 5 (lines 44 56), 6 (lines 6 19), 7 (lines 19 32), 8 (lines 5 8 and 53 67), 9 (lines 1 65), 10 (lines 54 67), and 11 (lines 1 32), a method for activating a digital camera having at least a single lens (lens barrel 2) which moves in accordance with an instructed magnification (An instructed magnification is inherent at time of lens manufacture, including zero magnification.), and an image sensing system (image pickup element 6) disposed for receiving an image from the single lens (2) and producing an electronic information representing the image, the method comprising:
- (a) determining an operation mode upon power initiation (single shot mode, low speed continuous mode, and high speed continuous mode; designated by switching control unit 10 connected to control circuit 17; see figure 2; column 6, lines 14 19; column 7, lines 19 21); and
- (b) if the operation mode is an image recording mode (all three modes are image recording modes), then:

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(i) initializing the image sensing system for receiving an image from the single lens and producing the electronic information representing the image (see "initialization processing" below);

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- (ii) moving the single lens (2) to initialization positions (see "initial status" and "predetermined status" below); and
- (iii) after completion of initializing the image sensing system, upon receipt of a command to record an image, recording an electronic information (in memory 16) representing an image presently available from the image sensing system (see "photographing and recording trigger" below) AFTER the lens groups arriving at the initialization positions.

The control circuit (17) operates according the flowchart of figure 4A. As stated in column 10 (lines 54 – 58), photographing and recording operations can be executed immediately after the initiation of a photographing and recording trigger (SW2 of two-stroke release switch 8). Furthermore, Sakaegi et al. state that there exists an "initial status" and a "predetermined status". The "initial status" is defined as the mirror (4) set down to the photographing optical axis to guide the light to the optical finder and the photometry apparatus (19) and/or the single lens (2) out-of-focus position at start-up (see column 10, lines 63 – 66) as is represented in figure 4A-1. The "predetermined status" is defined as the mirror (4) set up to a predetermined fixed position (see Step S57 in figure 4A-2), the aperture (3) at a predetermined stop (see Step S57 in figure 4A-2), and/or the single lens (2) in an in-focus position (see column 11, lines 1 – 3). Clearly, the "initial status" represents the camera at startup and the flow from Step S50 (in figure 4A-1) until X (in figure 4A-2); and the "predetermined status" represents the camera just before a photographing operation (Step S57 – S68 in figure 4A-2). As stated in column 11 (lines 3 – 9),

the transition from "initial status" to "predetermined status" is the initialization processing and the commence moving the single lens to an initialization position, as claimed. Finally, Sakaegi et al. disclose, as indicated in figure 4A-2, control the memory to store data in accordance with the electronic information presently available from the image sensor AFTER the lens group has arrived at its initialization position (see Steps S60 and S61).

Therefore, Sakaegi et al. does not disclose:

- (a) a plurality of lens groups; and
- (b) controlling the memory to store data in accordance with the electronic information presently available from the image sensor DURING movement of the plurality of lens groups.

With respect to (a) and (b), Katagiri also disclose an analogous electronic camera with a lens group. Additionally, Katagiri teaches a lens groups that is comprised of plurality of lens groups that collectively move between a first position and a second position.

More specifically, Katagiri disclose, as shown figures 2 – 4 and 11, a plurality of lens groups (102 – see figures 4 and 7); a memory (76 – see figure 6) for storing image data corresponding to the image sensed by the image sensor (73); and a controller (71 – see figure 6), wherein when the controller (71) receives instructions to record the image during a movement of the plurality of lens groups (zooming operation of 102 – see figure 11) from a first predetermined position (lens position at beginning of zooming operation W – see figure 11) to a second predetermined lens position (lens position at end of zooming operation T – see figure 11), the controller (71) controls the image sensor (73) to sense the image prior to the plurality of lens groups (102) have completed their movements to the second predetermined lens position (lens position at end of zooming operation T – see figure 11) for recording the image data into the

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memory (all images are passed to the memory 76 before being displayed at the LCD 77 – see figure 6; also see column 10, line 63 – column 11, line 32 and see column 12, line 52 – column 13, line 61 wherein Katagiri describes that images are captured and displayed during the zooming operation).

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Therefore, Katagiri teaches controlling a memory to store data in accordance with the electronic information presently available from the image sensor during movement of the plurality of lens groups, as claimed.

As stated in column 25 (lines 7 - 19) of Katagiri, at the time the invention was made it would have been obvious to one with ordinary skill in the art to have included plurality of lens groups and controlling a memory to store data in accordance with the electronic information presently available from the image sensor during movement of the plurality of lens group in the electronic camera disclosed Sakaegi et al. for the advantage inhibiting "any sense of incongruity for the user".

16. For Claim 15, Sakaegi et al. disclose, as shown in figures 1 – 3, 4A, and 5A – 5F and as stated in columns 5 (lines 44 – 56), 6 (lines 6 – 19), 7 (lines 19 – 32), 8 (lines 5 – 8 and 53 – 67), 9 (lines 1 – 65), 10 (lines 54 – 67), and 11 (lines 1 – 32), a method for use in a digital camera having at least a single lens (lens barrel 2) which moves in accordance with an instructed magnification (An instructed magnification is inherent at time of lens manufacture, including zero magnification.), and an image sensing system (image pickup element 6) disposed for receiving an image from the single lens (2) and producing an electronic information representing the image, the method comprising:

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(a) determining if an operation mode has changed (The action of powering up the camera changes the camera from an off mode to at least an image recording mode); and

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- (b) if the operation mode is an image recording mode (single shot mode, low speed continuous mode, and high speed continuous mode; designated by switching control unit 10 are all image recording modes), then:
- (i) initializing the image sensing system for receiving an image from the single lens and producing the electronic information representing the image (see "initialization" processing" below);
- (ii) moving the single lens (2) to initialization positions (see "initial status" and "predetermined status" below); and
- (iii) after completion of initializing the image sensing system, upon receipt of a command to record an image, recording an electronic information (in memory 16) representing an image presently available from the image sensing system (see "photographing and recording trigger" below) AFTER the lens groups arriving at the initialization positions.

The control circuit (17) operates according the flowchart of figure 4A. As stated in column 10 (lines 54 - 58), photographing and recording operations can be executed immediately after the initiation of a photographing and recording trigger (SW2 of two-stroke release switch 8). Furthermore, Sakaegi et al. state that there exists an "initial status" and a "predetermined status". The "initial status" is defined as the mirror (4) set down to the photographing optical axis to guide the light to the optical finder and the photometry apparatus (19) and/or the single lens (2) out-of-focus position at start-up (see column 10, lines 63 - 66) as is represented in figure 4A-1. The "predetermined status" is defined as the mirror (4) set up to a predetermined fixed

position (see Step S57 in figure 4A-2), the aperture (3) at a predetermined stop (see Step S57 in figure 4A-2), and/or the single lens (2) in an in-focus position (see column 11, lines 1-3). Clearly, the "initial status" represents the camera at startup and the flow from Step S50 (in figure 4A-1) until X (in figure 4A-2); and the "predetermined status" represents the camera just before a photographing operation (Step S57 – S68 in figure 4A-2). As stated in column 11 (lines 3-9), the transition from "initial status" to "predetermined status" is the initialization processing and the commence moving the single lens to an initialization position, as claimed. Finally, Sakaegi et al. disclose, as indicated in figure 4A-2, control the memory to store data in accordance with the electronic information presently available from the image sensor AFTER the lens group has arrived at its initialization position (see Steps S60 and S61).

Therefore, Sakaegi et al. does not disclose:

- (a) a plurality of lens groups; and
- (b) controlling the memory to store data in accordance with the electronic information presently available from the image sensor DURING movement of the plurality of lens groups.

With respect to (a) and (b), Katagiri also disclose an analogous electronic camera with a lens group. Additionally, Katagiri teaches a lens groups that is comprised of plurality of lens groups that collectively move between a first position and a second position.

More specifically, Katagiri disclose, as shown figures 2 – 4 and 11, a plurality of lens groups (102 – see figures 4 and 7); a memory (76 – see figure 6) for storing image data corresponding to the image sensed by the image sensor (73); and a controller (71 – see figure 6), wherein when the controller (71) receives instructions to record the image during a movement of the plurality of lens groups (zooming operation of 102 – see figure 11) from a first predetermined

position (lens position at beginning of zooming operation W – see figure 11) to a second predetermined lens position (lens position at end of zooming operation T – see figure 11), the controller (71) controls the image sensor (73) to sense the image prior to the plurality of lens groups (102) have completed their movements to the second predetermined lens position (lens position at end of zooming operation T – see figure 11) for recording the image data into the memory (all images are passed to the memory 76 before being displayed at the LCD 77 – see figure 6; also see column 10, line 63 – column 11, line 32 and see column 12, line 52 – column 13, line 61 wherein Katagiri describes that images are captured and displayed during the zooming operation).

Therefore, Katagiri teaches controlling a memory to store data in accordance with the electronic information presently available from the image sensor during movement of the plurality of lens groups, as claimed.

As stated in column 25 (lines 7 - 19) of Katagiri, at the time the invention was made it would have been obvious to one with ordinary skill in the art to have included plurality of lens groups and controlling a memory to store data in accordance with the electronic information presently available from the image sensor during movement of the plurality of lens group in the electronic camera disclosed Sakaegi et al. for the advantage inhibiting "any sense of incongruity for the user".

17. As for Claim 2, Sakaegi et al. disclose, as shown in figures 4A-1 and 5F, the digital camera according to Claim 1, wherein said program logic causes the controller (17) to initialize the image sensor (Steps S502 and 503) and memory (6) for image recording (Step S522, 521, and 522).

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18. As for Claim 3, Sakaegi et al. disclose, as shown in figures 4A-1 and 5E, the digital camera according to Claim 2, further comprising a display (7) device controlled by the controller (17), the program logic upon initialization, initializing the display device (6) for displaying information (Step S S525).

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- 19. As for Claim 4, Sakaegi et al. disclose, as shown in figure 1 and as stated in column 5 (line 49), the digital camera according to Claim 3, wherein said display device is a display.
- 20. As for Claims 5 and 12, Katagiri discloses, as shown in figure 4, wherein the plurality of lens groups (102) include a zoom lens (front and rear lens groups 5 and 7 see figure 4) and a focus lens (front and rear lens groups 5 and 7 see figure 4), wherein the controller (71) controls a movement of the zoom lens to control an image magnification and the controller controls the movement of the focus lens to control image focus (see column 9, lines 47 54).
- 21. As for Claim 10, Sakaegi et al. disclose, as shown in figure 2 and as stated in column 6 (lines 6-11), the method of Claim 9, wherein recording electronic information representing an image includes storing data in a memory (16) in accordance with the electronic information.

As for Claim 11, while Sakaegi et al. disclose an LCD display (7), Sakaegi et al. does not disclose displaying an image in accordance with the electronic information on a display device. However, Official Notice is taken that both the concepts and advantages of providing displaying an image in accordance with the electronic information on a display device are well known and expected in the art as a means to provide a preview feature so as to reduce wasted available memory space. At the time the invention was made, it would have been obvious to one with ordinary skill in the art to have displaying an image in accordance with the electronic information on a display device in the electronic camera of Sakaegi et al. in view of Katagiri.

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22. As for Claim 16, Sakaegi et al. disclose, as shown in figures 2, 4A-1, 5B, 5D, and 5F and as stated in columns 6 (lines 6-11) and 7 (lines 19-32), the method of Claim 15, wherein the camera includes a memory (16) and initializing the image sensing system includes initializing the memory for storing data (Step S52, 521, 522) in accordance with the electronic information from the image sensing system.

As for Claim 17, while Sakaegi et al. disclose an LCD display (7), Sakaegi et al. does not disclose an image preview feature as claimed: enabling image recording includes enabling display of an image in accordance with the electronic information from the image sensing system. However, Official Notice is taken that both the concepts and advantages of providing an image preview feature are well known and expected in the art as a means to reduce wasted available memory space. At the time the invention was made, it would have been obvious to one with ordinary skill in the art to have an image preview feature in the electronic camera of Sakaegi et al. in view of Katagiri.

- 23. Claims 6-8, 13, 14, and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakaegi et al. in view of Katagiri in further view of Hirasawa.
- 24. As for Claims 6, 13, and 18, while Sakaegi et al. in view of Katagiri disclose a lens barrel in electronic communication with the controller; Sakaegi et al. in view of Katagiri do not disclose a detector in electronic communication with the controller.

On the hand, Hirasawa also disclose a lens barrel. More specifically, Hirasawa disclose, as shown in figure 3 and as stated in columns 4 (lines 18 - 35 and 58 - 68) and 5 (lines 8 - 13), a plurality of lens groups (101 - 104 including a zooming and focusing lens group). Hirasawa

further disclose, as shown in figure 3 and as stated in columns 4 (lines 18 - 35 and 58 - 68) and 5 (lines 8 - 13), a detector (105) for detecting a movement amount of said zoom lens group (102), and controlling movement of the focus lens group (104) in accordance with a movement amount detected by said detector (105). The focus lens group (104) compensates the movements of the zoom lens group (104) to maintain an in-focus image, as stated in column 5 (lines 8 - 13).

As stated in column 2 (lines 58 - 62), at the time the invention was made, one with ordinary skill in the art would have been motivated to include a plurality of lens groups with a detector in electronic communication with a controller, as taught by Hirasawa, in the lens barrel, of Sakaegi et al. in view of Katagiri, as a means to provide a lens barrel capable of a zooming operation without image blur, from the star of the operation. Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to have include a plurality of lens groups, as taught by Hirasawa, in the lens barrel, of Sakaegi et al. in view of Katagiri.

25. As for Claims 7 and 19, Hirasawa disclose that the detector is comprised of a photosensor, however; Hirasawa do not disclose wherein a cord plate and a terminal form said detector. Official Notice is taken that both the concepts and advantages of forming a detector with a cord plate and terminal are well known and expected in the art as a means to provide precise position detection of all lens groups at all times rather than only detection of the lens groups at certain reference positions. At the time the invention was made, it would have been obvious to one with ordinary skill in the art to have included forming a detector with a cord plate and terminal in the electronic camera of Sakaegi et al. in view of Katagiri.

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26. As for Claims 8 and 20, Hirasawa disclose, as shown in figure 3, that the zoom lens group (102) and the focus lens group (104) are driven by means of respective stepping motors (110 and 112). Therefore, the detector (105) detects step movement, each step corresponding to a movement range of said zoom lens group (104) from a retracted position to an initialization position divided into a substantially equal number of intervals, with step movement controlled by means of stepping motor (110).

27. As for **Claim 14**, Katagiri discloses, as shown in figure 11, dividing a range of the zoom lens group into a plurality of steps, said range being from a retracted position to the initialization position, and storing movement amounts of the focus lens group corresponding to respective steps, and reading the movement amounts of the focus lens group corresponding to the step detected by the detector and moving the focus lens group.

Conclusion

28. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Justin P Misleh whose telephone number is 571.272.7313. The Examiner can normally be reached on Monday through Friday from 8:00 AM to 5:00 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Ngoc Yen Vu can be reached on 571.272.7320. The fax phone number for the organization where this application or proceeding is assigned is 571.273.3000.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for

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unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JPM October 31, 2005

PRIMARY EXAMINER